

**Tribhuvan University**  
**Institute of Science and Technology**  
**2072**

Bachelor Level / seventh-semester / Science

**Computer Science and Information Technology(O-CSC402)**

(Internet Technology (old syllabus))

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Full marks: 60

Pass marks: 24

Time: 3 hours

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**Attempt all the questions.**

- 1. What do you mean by internet number? Describe the role in Regional Internet Registry (RIR) and National Internet Registry (NIR) in the internet systems.**
- 2. How structure of a domain name looks like describe with an example. How forward DNS resolution works?**
- 3. How IPv6 addresses can be classified? Discuss about IPv6 header structure.**
- 4. How SMTP differs from POP? What are the reasons for multiple protocols in internet systems?**
- 5. Define WMI Deck and Card. Write a simple WMI code showing deck and card with some piece of text inside it.**
- 6. What possible factors can be considered while filtering the content in web? How SMTP proxies can be used to filter mails?**
- 7. What is the purpose of using XML? Why XML elements are said to be extensible?Support your answer with an example.**
- 8. What do you mean by audio broadcasting? Discuss the basic components of IRC protocol.**
- 9. Describe the building blocks that need to be considered while designing Internet System Network Architecture.**
- 10. Discuss possible types of VPN Tunneling. How VPN client server interaction occurs,discuss with an example.**